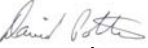


TO: Members of Education Oversight Committee

FROM: David Potter 
Director of Research

DATE: January 15, 2010

SUBJECT: 2009 Ratings Simulations Disaggregated for Elementary
and Middle Schools

At the ratings simulation question and answer telecast at ETV sponsored by the South Carolina School Administrators Association (SCASA) on Tuesday, January 13, SCASA requested that EOC staff break the ratings simulation out for elementary and middle schools separately so that performance of the two school organizational levels could be compared. The ratings simulation data posted on the EOC web site on December 18, 2009, was based on combined data from the elementary and middle schools.

The attached tables provide the data simulations for all schools combined, for elementary schools only, and for middle schools only. There are tables providing these data for each Absolute and Growth model simulated. For comparison purposes, tables listing the actual Absolute and Growth ratings results from 2008 are also provided for all schools combined, for elementary schools only, and for middle schools only.

These tables reveal:

- All of the Absolute ratings simulation models result in fewer schools at both organizational levels identified for technical assistance;
 - For example, the criteria based on 0.75 standard deviations for the Absolute Model A-1 simulations indicate that 18.6% of elementary schools would receive Absolute ratings of Below Average or At Risk, and 29.8% of middle schools would receive Below Average or At Risk Absolute ratings;
 - This compares with the 2008 ratings results, where 40.5% of elementary schools received Below Average or At Risk Absolute ratings, and 60.7% of middle schools received Below Average or At Risk Absolute ratings.

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- Similarly, the percentages of schools which would receive Below Average or At Risk Growth ratings are also smaller than the percentages of these Growth rating levels awarded in 2008;
 - For example, the criteria based on 0.75 standard deviations for the Growth Model G-1 simulations indicate that 16.5% of elementary schools would receive Growth ratings of Below Average or At Risk, and 16.5% of middle schools would receive Below Average or At Risk Growth ratings;
 - This compares with the 2008 ratings results, where 67.9% of elementary schools received Below Average or At Risk Growth ratings, and 84.5% of middle schools received Below Average or At Risk Growth ratings.

Attachment

2009 Ratings Simulations Based on PASS

Results of Simulations Using Model A-1 ALL ELEMENTARY AND MIDDLE SCHOOLS

Mean of all schools = 2.966, Standard Deviation = 0.4290, n=930

A-1A: Criteria Based on +/- 0.5 SD				
Simulated Rating	Absolute	Range of Indexes for +/- 0.5 SD	Number of Schools	Percent of Schools
Excellent		3.40 or above	137	14.7
Good		3.18 to 3.39	147	15.8
Average		2.75 to 3.17	358	38.5
Below Average		2.54 to 2.74	149	16
At Risk		LT 2.54	139	14.9
Total*			930	99.9
A-1B: Criteria Based on +/- 0.75 SD				
Simulated Rating	Absolute	Range of Indexes for +/- 0.75 SD	Number of Schools	Percent of Schools
Excellent		3.61 or above	58	6.2
Good		3.29 to 3.60	146	15.7
Average		2.65 to 3.28	520	55.9
Below Average		2.32 to 2.64	148	15.9
At Risk		LT 2.32	58	6.2
Total*			930	99.9
A-1C: Criteria Based on +/- 1.0 SD				
Simulated Rating	Absolute	Range of Indexes for +/- 1.0 SD	Number of Schools	Percent of Schools
Excellent		3.82 or above	23	2.5
Good		3.40 to 3.81	114	12.3
Average		2.54 to 3.39	654	70.3
Below Average		2.11 to 2.53	121	13
At Risk		LT 2.11	18	1.9
Total*			930	100

* Totals may differ from 100% due to rounding.
SD=Standard Deviation

**Results of Simulations Using Model A-1
ELEMENTARY ONLY**

Mean of all elementary schools = 3.015, Standard Deviation = 0.4170, n=631

A-1A: Criteria Based on +/- 0.5 SD			
Simulated Absolute Rating	Range of Indexes for +/- 0.5 SD	Number of Schools	Percent of Schools
Excellent	3.40 or above	109	17.3
Good	3.18 to 3.39	107	17
Average	2.75 to 3.17	241	38.2
Below Average	2.54 to 2.74	98	15.5
At Risk	LT 2.54	76	12
Total*		631	100
A-1B: Criteria Based on +/- 0.75 SD			
Simulated Absolute Rating	Range of Indexes for +/- 0.75 SD	Number of Schools	Percent of Schools
Excellent	3.61 or above	46	7.3
Good	3.29 to 3.60	112	17.7
Average	2.65 to 3.28	356	56.4
Below Average	2.32 to 2.64	87	13.8
At Risk	LT 2.32	30	4.8
Total*		631	100
A-1C: Criteria Based on +/- 1.0 SD			
Simulated Absolute Rating	Range of Indexes for +/- 1.0 SD	Number of Schools	Percent of Schools
Excellent	3.82 or above	19	3
Good	3.40 to 3.81	90	14.3
Average	2.54 to 3.39	446	70.7
Below Average	2.11 to 2.53	69	10.9
At Risk	LT 2.11	7	1.1
Total*		631	100

* Totals may differ from 100% due to rounding.
SD=Standard Deviation

**Results of Simulations Using Model A-1
MIDDLE ONLY**

Mean of all middle schools = 2.864, Standard Deviation = 0.4368, n=299

A-1A: Criteria Based on +/- 0.5 SD			
Simulated Absolute Rating	Range of Indexes for +/- 0.5 SD	Number of Schools	Percent of Schools
Excellent	3.40 or above	28	9.4
Good	3.18 to 3.39	40	13.4
Average	2.75 to 3.17	117	39.1
Below Average	2.54 to 2.74	51	17.1
At Risk	LT 2.54	63	21.1
Total*		299	100.1
A-1B: Criteria Based on +/- 0.75 SD			
Simulated Absolute Rating	Range of Indexes for +/- 0.75 SD	Number of Schools	Percent of Schools
Excellent	3.61 or above	12	4
Good	3.29 to 3.60	34	11.4
Average	2.65 to 3.28	164	54.8
Below Average	2.32 to 2.64	61	20.4
At Risk	LT 2.32	28	9.4
Total*		299	100
A-1C: Criteria Based on +/- 1.0 SD			
Simulated Absolute Rating	Range of Indexes for +/- 1.0 SD	Number of Schools	Percent of Schools
Excellent	3.82 or above	4	1.3
Good	3.40 to 3.81	24	8
Average	2.54 to 3.39	208	69.6
Below Average	2.11 to 2.53	52	17.4
At Risk	LT 2.11	11	3.7
Total*		299	100

* Totals may differ from 100% due to rounding.
SD=Standard Deviation

Results of Simulations Using Model A-2
ALL ELEMENTARY AND MIDDLE SCHOOLS

Mean of all schools = 1.957, Standard Deviation = 0.2655, n=930

A-2A: Criteria Based on +/- 0.5 SD				
Simulated Rating	Absolute	Range of Indexes for +/- 0.5 SD	Number of Schools	Percent of Schools
Excellent		2.22 or above	142	15.3
Good		2.09 to 2.21	150	16.1
Average		1.82 to 2.08	353	38
Below Average		1.69 to 1.81	144	15.5
At Risk		LT 1.69	141	15.2
Total*			930	100.1
A-2B: Criteria Based on +/- 0.75 SD				
Simulated Rating	Absolute	Range of Indexes for +/- 0.75 SD	Number of Schools	Percent of Schools
Excellent		2.36 or above	58	6.2
Good		2.16 to 2.35	148	15.9
Average		1.76 to 2.15	513	55.2
Below Average		1.56 to 1.75	149	16
At Risk		LT 1.56	62	6.7
Total*			930	100
A-2C: Criteria Based on +/- 1.0 SD				
Simulated Rating	Absolute	Range of Indexes for +/- 1.0 SD	Number of Schools	Percent of Schools
Excellent		2.49 or above	22	2.4
Good		2.22 to 2.48	120	12.9
Average		1.69 to 2.21	647	69.6
Below Average		1.43 to 1.68	124	13.3
At Risk		LT 1.43	17	1.8
Total*			930	100

* Totals may differ from 100% due to rounding.

SD=Standard Deviation

Results of Simulations Using Model A-2 ELEMENTARY SCHOOLS

Mean of all elementary schools = 1.986, Standard Deviation = 0.2584, n=631

A-2A: Criteria Based on +/- 0.5 SD				
Simulated Rating	Absolute	Range of Indexes for +/- 0.5 SD	Number of Schools	Percent of Schools
Excellent		2.22 or above	112	17.7
Good		2.09 to 2.21	110	17.4
Average		1.82 to 2.08	235	37.2
Below Average		1.69 to 1.81	99	15.7
At Risk		LT 1.69	75	11.9
Total*			631	99.9
A-2B: Criteria Based on +/- 0.75 SD				
Simulated Rating	Absolute	Range of Indexes for +/- 0.75 SD	Number of Schools	Percent of Schools
Excellent		2.36 or above	46	7.3
Good		2.16 to 2.35	114	18.1
Average		1.76 to 2.15	350	55.5
Below Average		1.56 to 1.75	89	14.1
At Risk		LT 1.56	32	5.1
Total*			631	100.1
A-2C: Criteria Based on +/- 1.0 SD				
Simulated Rating	Absolute	Range of Indexes for +/- 1.0 SD	Number of Schools	Percent of Schools
Excellent		2.49 or above	18	2.9
Good		2.22 to 2.48	94	14.9
Average		1.69 to 2.21	444	70.4
Below Average		1.43 to 1.68	70	11.1
At Risk		LT 1.43	5	0.8
Total*			631	100.1

* Totals may differ from 100% due to rounding.

SD=Standard Deviation

Results of Simulations Using Model A-2 MIDDLE SCHOOLS

Mean of all middle schools = 1.895, Standard Deviation = 0.2701, n=299

A-2A: Criteria Based on +/- 0.5 SD				
Simulated Rating	Absolute	Range of Indexes for +/- 0.5 SD	Number of Schools	Percent of Schools
Excellent		2.22 or above	30	10
Good		2.09 to 2.21	40	13.4
Average		1.82 to 2.08	118	39.5
Below Average		1.69 to 1.81	45	15.1
At Risk		LT 1.69	66	22.1
Total*			299	100.1
A-2B: Criteria Based on +/- 0.75 SD				
Simulated Rating	Absolute	Range of Indexes for +/- 0.75 SD	Number of Schools	Percent of Schools
Excellent		2.36 or above	12	4
Good		2.16 to 2.35	34	11.4
Average		1.76 to 2.15	163	54.5
Below Average		1.56 to 1.75	60	20.1
At Risk		LT 1.56	30	10
Total*			299	100
A-2C: Criteria Based on +/- 1.0 SD				
Simulated Rating	Absolute	Range of Indexes for +/- 1.0 SD	Number of Schools	Percent of Schools
Excellent		2.49 or above	4	1.3
Good		2.22 to 2.48	26	8.7
Average		1.69 to 2.21	203	67.9
Below Average		1.43 to 1.68	54	18.1
At Risk		LT 1.43	12	4
Total*			299	100

* Totals may differ from 100% due to rounding.

SD=Standard Deviation

Simulations of Growth Rating Indexes

Results of Simulations Using Model G-1 ALL ELEMENTARY AND MIDDLE SCHOOLS

Mean of all schools = -0.131, Standard Deviation = 0.1248, n=908

G-1A: Criteria Based on +/- 0.5 SD				
Simulated Growth Rating	Growth	Range of Indexes for +/- 0.5 SD	Number of Schools	Percent of Schools
Excellent		-0.01 or above	127	14
Good		-0.07 to -0.02	133	14.6
Average		-0.19 to -0.08	398	43.8
Below Average		-0.26 to -0.20	153	16.9
At Risk		LT -0.26	97	10.7
Total*			908	100
G-1B: Criteria Based on +/- 0.75 SD				
Simulated Growth Rating	Growth	Range of Indexes for +/- 0.75 SD	Number of Schools	Percent of Schools
Excellent		0.06 or above	45	5
Good		-0.04 to 0.05	141	15.5
Average		-0.23 to -0.05	572	63
Below Average		-0.32 to -0.24	104	11.5
At Risk		LT -0.32	46	5.1
Total*			908	100.1
G-1C: Criteria Based on +/- 1.0 SD				
Simulated Growth Rating	Growth	Range of Indexes for +/- 1.0 SD	Number of Schools	Percent of Schools
Excellent		0.12 or above	21	2.3
Good		-0.01 to 0.11	106	11.7
Average		-0.26 to -0.02	684	75.3
Below Average		-0.38 to -0.27	76	8.4
At Risk		LT -0.38	21	2.3
Total*			908	100

* Totals may differ from 100% due to rounding.

SD=Standard Deviation

Results of Simulations Using Model G-1 ELEMENTARY SCHOOLS

Mean of all elementary schools = -0.126, Standard Deviation = 0.1345, n=610

G-1A: Criteria Based on +/- 0.5 SD				
Simulated Growth Rating		Range of Indexes for +/- 0.5 SD	Number of Schools	Percent of Schools
Excellent		-0.01 or above	97	15.9
Good		-0.07 to -0.02	94	15.4
Average		-0.19 to -0.08	260	42.6
Below Average		-0.26 to -0.20	90	14.8
At Risk		LT -0.26	69	11.3
Total*			610	100
G-1B: Criteria Based on +/- 0.75 SD				
Simulated Growth Rating		Range of Indexes for +/- 0.75 SD	Number of Schools	Percent of Schools
Excellent		0.06 or above	36	5.9
Good		-0.04 to 0.05	104	17
Average		-0.23 to -0.05	369	60.5
Below Average		-0.32 to -0.24	63	10.3
At Risk		LT -0.32	38	6.2
Total*			610	99.9
G-1C: Criteria Based on +/- 1.0 SD				
Simulated Growth Rating		Range of Indexes for +/- 1.0 SD	Number of Schools	Percent of Schools
Excellent		0.12 or above	17	2.8
Good		-0.01 to 0.11	80	13.1
Average		-0.26 to -0.02	444	72.8
Below Average		-0.38 to -0.27	52	8.5
At Risk		LT -0.38	17	2.8
Total*			610	100

* Totals may differ from 100% due to rounding.
SD=Standard Deviation

Results of Simulations Using Model G-1 MIDDLE SCHOOLS

Mean of all middle schools = -0.142, Standard Deviation = 0.1015, n=298

G-1A: Criteria Based on +/- 0.5 SD				
Simulated Growth Rating		Range of Indexes for +/- 0.5 SD	Number of Schools	Percent of Schools
Excellent		-0.01 or above	30	10.1
Good		-0.07 to -0.02	39	13.1
Average		-0.19 to -0.08	148	49.7
Below Average		-0.26 to -0.20	53	17.8
At Risk		LT -0.26	28	9.4
Total*			298	100.1
G-1B: Criteria Based on +/- 0.75 SD				
Simulated Growth Rating		Range of Indexes for +/- 0.75 SD	Number of Schools	Percent of Schools
Excellent		0.06 or above	9	3
Good		-0.04 to 0.05	37	12.4
Average		-0.23 to -0.05	203	68.1
Below Average		-0.32 to -0.24	41	13.8
At Risk		LT -0.32	8	2.7
Total*			298	100
G-1C: Criteria Based on +/- 1.0 SD				
Simulated Growth Rating		Range of Indexes for +/- 1.0 SD	Number of Schools	Percent of Schools
Excellent		0.12 or above	4	1.3
Good		-0.01 to 0.11	26	8.7
Average		-0.26 to -0.02	240	80.5
Below Average		-0.38 to -0.27	24	8.1
At Risk		LT -0.38	4	1.3
Total*			298	99.9

* Totals may differ from 100% due to rounding.
SD=Standard Deviation

**Results of Simulations Using Model G-2
ALL ELEMENTARY AND MIDDLE SCHOOLS**

Mean of all schools = -0.091, Standard Deviation = 0.0826, n=908

G-2A: Criteria Based on +/- 0.5 SD				
Simulated Rating	Growth	Range of Indexes for +/- 0.5 SD	Number of Schools	Percent of Schools
Excellent		-0.01 or above	128	14.1
Good		-0.05 to -0.02	153	16.9
Average		-0.13 to -0.06	396	43.6
Below Average		-0.17 to -0.14	124	13.7
At Risk		LT -0.17	107	11.8
Total*			908	100.1
G-2B: Criteria Based on +/- 0.75 SD				
Simulated Rating	Growth	Range of Indexes for +/- 0.75 SD	Number of Schools	Percent of Schools
Excellent		0.03 or above	47	5.2
Good		-0.03 to 0.02	140	15.4
Average		-0.15 to -0.04	552	60.8
Below Average		-0.22 to -0.16	122	13.4
At Risk		LT -0.22	47	5.2
Total*			908	100
G-2C: Criteria Based on +/- 1.0 SD				
Simulated Rating	Growth	Range of Indexes for +/- 1.0 SD	Number of Schools	Percent of Schools
Excellent		0.07 or above	24	2.6
Good		-0.01 to 0.06	104	11.5
Average		-0.17 to -0.02	673	74.1
Below Average		-0.26 to -0.18	90	9.9
At Risk		LT -0.26	17	1.9
Total*			908	100

* Totals may differ from 100% due to rounding.

SD=Standard Deviation

**Results of Simulations Using Model G-2
ELEMENTARY ONLY**

Mean of all elementary schools = -0.096, Standard Deviation = 0.0901, n=610

G-2A: Criteria Based on +/- 0.5 SD				
Simulated Growth Rating		Range of Indexes for +/- 0.5 SD	Number of Schools	Percent of Schools
Excellent		-0.01 or above	88	14.4
Good		-0.05 to -0.02	87	14.3
Average		-0.13 to -0.06	257	42.1
Below Average		-0.17 to -0.14	86	14.1
At Risk		LT -0.17	92	15.1
Total*			610	100
G-2B: Criteria Based on +/- 0.75 SD				
Simulated Growth Rating		Range of Indexes for +/- 0.75 SD	Number of Schools	Percent of Schools
Excellent		0.03 or above	36	5.9
Good		-0.03 to 0.02	81	13.3
Average		-0.15 to -0.04	357	58.5
Below Average		-0.22 to -0.16	74	12.1
At Risk		LT -0.22	62	10.2
Total*			610	100
G-2C: Criteria Based on +/- 1.0 SD				
Simulated Growth Rating		Range of Indexes for +/- 1.0 SD	Number of Schools	Percent of Schools
Excellent		0.07 or above	20	3.3
Good		-0.01 to 0.06	68	11.1
Average		-0.17 to -0.02	430	70.5
Below Average		-0.26 to -0.18	75	12.3
At Risk		LT -0.26	17	2.8
Total*			610	100

* Totals may differ from 100% due to rounding.
SD=Standard Deviation

**Results of Simulations Using Model G-2
MIDDLE ONLY**

Mean of all middle schools = -0.080, Standard Deviation = 0.0632, n=298

G-2A: Criteria Based on +/- 0.5 SD				
Simulated Growth Rating		Range of Indexes for +/- 0.5 SD	Number of Schools	Percent of Schools
Excellent		-0.01 or above	40	13.4
Good		-0.05 to -0.02	66	22.1
Average		-0.13 to -0.06	139	46.6
Below Average		-0.17 to -0.14	38	12.8
At Risk		LT -0.17	15	5
Total*			298	99.9
G-2B: Criteria Based on +/- 0.75 SD				
Simulated Growth Rating		Range of Indexes for +/- 0.75 SD	Number of Schools	Percent of Schools
Excellent		0.03 or above	11	3.7
Good		-0.03 to 0.02	59	19.8
Average		-0.15 to -0.04	195	65.4
Below Average		-0.22 to -0.16	26	8.7
At Risk		LT -0.22	7	2.3
Total*			298	99.9
G-2C: Criteria Based on +/- 1.0 SD				
Simulated Growth Rating		Range of Indexes for +/- 1.0 SD	Number of Schools	Percent of Schools
Excellent		0.07 or above	4	1.3
Good		-0.01 to 0.06	36	12.1
Average		-0.17 to -0.02	243	81.5
Below Average		-0.26 to -0.18	15	5
At Risk		LT -0.26	0	0
Total*			298	99.9

* Totals may differ from 100% due to rounding.
SD=Standard Deviation

**Results of Simulations Using Model G-3
ALL ELEMENTARY AND MIDDLE SCHOOLS**

Mean of all schools = -0.119, Standard Deviation = 0.1133, n=908

G-3A: Criteria Based on +/- 0.5 SD				
Simulated Rating	Growth	Range of Indexes for +/- 0.5 SD	Number of Schools	Percent of Schools
Excellent		-0.01 or above	126	13.9
Good		-0.06 to -0.02	120	13.2
Average		-0.18 to -0.07	432	47.6
Below Average		-0.23 to -0.19	121	13.3
At Risk		LT -0.23	109	12
Total*			908	100
G-3B: Criteria Based on +/- 0.75 SD				
Simulated Rating	Growth	Range of Indexes for +/- 0.75 SD	Number of Schools	Percent of Schools
Excellent		0.05 or above	49	5.4
Good		-0.03 to 0.04	119	13.1
Average		-0.20 to -0.04	558	61.5
Below Average		-0.29 to -0.21	132	14.5
At Risk		LT -0.29	50	5.5
Total*			908	100
G-3C: Criteria Based on +/- 1.0 SD				
Simulated Rating	Growth	Range of Indexes for +/- 1.0 SD	Number of Schools	Percent of Schools
Excellent		0.11 or above	21	2.3
Good		-0.01 to 0.10	105	11.6
Average		-0.23 to -0.02	673	74.1
Below Average		-0.35 to -0.24	89	9.8
At Risk		LT -0.35	20	2.2
Total*			908	100

* Totals may differ from 100% due to rounding.

SD=Standard Deviation

Results of Simulations Using Model G-3 ELEMENTARY SCHOOLS

Mean of all elementary schools = -0.117, Standard Deviation = 0.1230, n=610

G-3A: Criteria Based on +/- 0.5 SD				
Simulated Growth Rating		Range of Indexes for +/- 0.5 SD	Number of Schools	Percent of Schools
Excellent		-0.01 or above	93	15.2
Good		-0.06 to -0.02	85	13.9
Average		-0.18 to -0.07	278	45.6
Below Average		-0.23 to -0.19	70	11.5
At Risk		LT -0.23	84	13.8
Total*			610	100
G-3B: Criteria Based on +/- 0.75 SD				
Simulated Growth Rating		Range of Indexes for +/- 0.75 SD	Number of Schools	Percent of Schools
Excellent		0.05 or above	41	6.7
Good		-0.03 to 0.04	81	13.3
Average		-0.20 to -0.04	359	58.9
Below Average		-0.29 to -0.21	88	14.4
At Risk		LT -0.29	41	6.7
Total*			610	100
G-3C: Criteria Based on +/- 1.0 SD				
Simulated Growth Rating		Range of Indexes for +/- 1.0 SD	Number of Schools	Percent of Schools
Excellent		0.11 or above	18	3
Good		-0.01 to 0.10	75	12.3
Average		-0.23 to -0.02	433	71
Below Average		-0.35 to -0.24	67	11
At Risk		LT -0.35	17	2.8
Total*			610	100.1

* Totals may differ from 100% due to rounding.
SD=Standard Deviation

Results of Simulations Using Model G-3 MIDDLE SCHOOLS

Mean of all middle schools = -0.124, Standard Deviation = 0.0904, n=298

G-3A: Criteria Based on +/- 0.5 SD				
Simulated Growth Rating		Range of Indexes for +/- 0.5 SD	Number of Schools	Percent of Schools
Excellent		-0.01 or above	33	11.1
Good		-0.06 to -0.02	35	11.7
Average		-0.18 to -0.07	154	51.7
Below Average		-0.23 to -0.19	51	17.1
At Risk		LT -0.23	25	8.4
Total*			298	100
G-3B: Criteria Based on +/- 0.75 SD				
Simulated Growth Rating		Range of Indexes for +/- 0.75 SD	Number of Schools	Percent of Schools
Excellent		0.05 or above	8	2.7
Good		-0.03 to 0.04	38	12.8
Average		-0.20 to -0.04	199	66.8
Below Average		-0.29 to -0.21	44	14.8
At Risk		LT -0.29	9	3
Total*			298	100.1
G-3C: Criteria Based on +/- 1.0 SD				
Simulated Growth Rating		Range of Indexes for +/- 1.0 SD	Number of Schools	Percent of Schools
Excellent		0.11 or above	3	1
Good		-0.01 to 0.10	30	10.1
Average		-0.23 to -0.02	240	80.5
Below Average		-0.35 to -0.24	22	7.4
At Risk		LT -0.35	3	1
Total*			298	100

* Totals may differ from 100% due to rounding.
SD=Standard Deviation

Results of Simulations Using Model G-4
Symmetrical Growth Value Table Based on 1- to 5-Point Weights
ALL ELEMENTARY AND MIDDLE SCHOOLS

Mean of all schools = 98.57, Standard Deviation = 4.8749, n=908

G-4A: Criteria Based on +/- 0.5 SD				
Simulated Growth Rating	Growth	Range of Indexes for +/- 0.5 SD	Number of Schools	Percent of Schools
Excellent		103.45 or above	134	14.8
Good		101.02 to 103.44	132	14.5
Average		96.14 to 101.01	367	40.4
Below Average		93.70 to 96.13	144	15.9
At Risk		LT 93.70	131	14.4
Total*			908	100
G-4B: Criteria Based on +/- 0.75 SD				
Simulated Growth Rating	Growth	Range of Indexes for +/- 0.75 SD	Number of Schools	Percent of Schools
Excellent		105.89 or above	61	6.7
Good		102.23 to 105.88	130	14.3
Average		94.92 to 102.22	521	57.4
Below Average		91.27 to 94.91	139	15.3
At Risk		LT 91.27	57	6.3
Total*			908	100
G-4C: Criteria Based on +/- 1.0 SD				
Simulated Growth Rating	Growth	Range of Indexes for +/- 1.0 SD	Number of Schools	Percent of Schools
Excellent		108.33 or above	23	2.5
Good		103.45 to 108.32	111	12.2
Average		93.70 to 103.44	643	70.8
Below Average		88.83 to 93.69	107	11.8
At Risk		LT 88.83	24	2.6
Total*			908	99.9

* Totals may differ from 100% due to rounding.
SD=Standard Deviation

Results of Simulations Using Model G-4
Symmetrical Growth Value Table Based on 1- to 5-Point Weights
ELEMENTARY SCHOOLS

Mean of all elementary schools = 99.39, Standard Deviation = 4.8113, n=610

G-4A: Criteria Based on +/- 0.5 SD				
Simulated Growth Rating		Range of Indexes for +/- 0.5 SD	Number of Schools	Percent of Schools
Excellent		103.45 or above	115	18.9
Good		101.02 to 103.44	106	17.4
Average		96.14 to 101.01	245	40.2
Below Average		93.70 to 96.13	80	13.1
At Risk		LT 93.70	64	10.5
Total*			610	100.1
G-4B: Criteria Based on +/- 0.75 SD				
Simulated Growth Rating		Range of Indexes for +/- 0.75 SD	Number of Schools	Percent of Schools
Excellent		105.89 or above	53	8.7
Good		102.23 to 105.88	109	17.9
Average		94.92 to 102.22	347	56.9
Below Average		91.27 to 94.91	70	11.5
At Risk		LT 91.27	31	5.1
Total*			610	100.1
G-4C: Criteria Based on +/- 1.0 SD				
Simulated Growth Rating		Range of Indexes for +/- 1.0 SD	Number of Schools	Percent of Schools
Excellent		108.33 or above	21	3.4
Good		103.45 to 108.32	94	15.4
Average		93.70 to 103.44	431	70.7
Below Average		88.83 to 93.69	55	9
At Risk		LT 88.83	9	1.5
Total*			610	100

* Totals may differ from 100% due to rounding.

SD=Standard Deviation

Results of Simulations Using Model G-4
Symmetrical Growth Value Table Based on 1- to 5-Point Weights
MIDDLE SCHOOLS

Mean of all middle schools = 96.89, Standard Deviation = 4.5704, n=298

G-4A: Criteria Based on +/- 0.5 SD				
Simulated Growth Rating	Growth	Range of Indexes for +/- 0.5 SD	Number of Schools	Percent of Schools
Excellent		103.45 or above	19	6.4
Good		101.02 to 103.44	26	8.7
Average		96.14 to 101.01	122	40.9
Below Average		93.70 to 96.13	64	21.5
At Risk		LT 93.70	67	22.5
Total*			298	100
G-4B: Criteria Based on +/- 0.75 SD				
Simulated Growth Rating	Growth	Range of Indexes for +/- 0.75 SD	Number of Schools	Percent of Schools
Excellent		105.89 or above	8	2.7
Good		102.23 to 105.88	21	7
Average		94.92 to 102.22	172	57.7
Below Average		91.27 to 94.91	71	23.8
At Risk		LT 91.27	26	8.7
Total*			298	99.9
G-4C: Criteria Based on +/- 1.0 SD				
Simulated Growth Rating	Growth	Range of Indexes for +/- 1.0 SD	Number of Schools	Percent of Schools
Excellent		108.33 or above	2	0.7
Good		103.45 to 108.32	17	5.7
Average		93.70 to 103.44	213	71.5
Below Average		88.83 to 93.69	51	17.1
At Risk		LT 88.83	15	5
Total*			298	100

* Totals may differ from 100% due to rounding.

SD=Standard Deviation

Results of Simulations Using Model G-5
Symmetrical Growth Value Table Based on 1- to 3-Point Weights
ALL ELEMENTARY AND MIDDLE SCHOOLS

Mean of all schools = 98.44, Standard Deviation = 6.3014, n=908

G-5A: Criteria Based on +/- 0.5 SD				
Simulated Growth Rating	Growth	Range of Indexes for +/- 0.5 SD	Number of Schools	Percent of Schools
Excellent		104.74 or above	135	14.9
Good		101.59 to 104.73	141	15.5
Average		95.29 to 101.58	356	39.2
Below Average		92.14 to 95.28	139	15.3
At Risk		LT 92.14	137	15.1
Total*			908	100
G-5B: Criteria Based on +/- 0.75 SD				
Simulated Growth Rating	Growth	Range of Indexes for +/- 0.75 SD	Number of Schools	Percent of Schools
Excellent		107.89 or above	65	7.2
Good		103.17 to 107.88	124	13.7
Average		93.72 to 103.16	514	56.6
Below Average		88.99 to 93.71	130	14.3
At Risk		LT 88.99	75	8.3
Total*			908	100.1
G-5C: Criteria Based on +/- 1.0 SD				
Simulated Growth Rating	Growth	Range of Indexes for +/- 1.0 SD	Number of Schools	Percent of Schools
Excellent		111.04 or above	27	3
Good		104.74 to 111.03	108	11.9
Average		92.14 to 104.73	636	70
Below Average		85.84 to 92.13	119	13.1
At Risk		LT 85.84	18	2
Total*			908	100

* Totals may differ from 100% due to rounding.
SD=Standard Deviation

Results of Simulations Using Model G-5
Symmetrical Growth Value Table Based on 1- to 3-Point Weights
ELEMENTARY SCHOOLS

Mean of all elementary schools = 99.27, Standard Deviation = 6.3748, n=610

G-5A: Criteria Based on +/- 0.5 SD				
Simulated Growth Rating	Growth	Range of Indexes for +/- 0.5 SD	Number of Schools	Percent of Schools
Excellent		104.74 or above	116	19
Good		101.59 to 104.73	103	16.9
Average		95.29 to 101.58	232	38
Below Average		92.14 to 95.28	83	13.6
At Risk		LT 92.14	76	12.5
Total*			610	100
G-5B: Criteria Based on +/- 0.75 SD				
Simulated Growth Rating	Growth	Range of Indexes for +/- 0.75 SD	Number of Schools	Percent of Schools
Excellent		107.89 or above	55	9
Good		103.17 to 107.88	102	16.7
Average		93.72 to 103.16	334	54.8
Below Average		88.99 to 93.71	82	13.4
At Risk		LT 88.99	37	6.1
Total*			610	100
G-5C: Criteria Based on +/- 1.0 SD				
Simulated Growth Rating	Growth	Range of Indexes for +/- 1.0 SD	Number of Schools	Percent of Schools
Excellent		111.04 or above	24	3.9
Good		104.74 to 111.03	92	15.1
Average		92.14 to 104.73	418	68.5
Below Average		85.84 to 92.13	66	10.8
At Risk		LT 85.84	10	1.6
Total*			610	99.9

* Totals may differ from 100% due to rounding.
SD=Standard Deviation

Results of Simulations Using Model G-5
Symmetrical Growth Value Table Based on 1- to 3-Point Weights
MIDDLE SCHOOLS

Mean of all middle schools = 96.72, Standard Deviation = 5.7920, n=298

G-5A: Criteria Based on +/- 0.5 SD				
Simulated Growth Rating	Growth	Range of Indexes for +/- 0.5 SD	Number of Schools	Percent of Schools
Excellent		104.74 or above	19	6.4
Good		101.59 to 104.73	38	12.8
Average		95.29 to 101.58	124	41.6
Below Average		92.14 to 95.28	56	18.8
At Risk		LT 92.14	61	20.5
Total*			298	100.1
G-5B: Criteria Based on +/- 0.75 SD				
Simulated Growth Rating	Growth	Range of Indexes for +/- 0.75 SD	Number of Schools	Percent of Schools
Excellent		107.89 or above	10	3.4
Good		103.17 to 107.88	22	7.4
Average		93.72 to 103.16	180	60.4
Below Average		88.99 to 93.71	63	21.1
At Risk		LT 88.99	23	7.7
Total*			298	100
G-5C: Criteria Based on +/- 1.0 SD				
Simulated Growth Rating	Growth	Range of Indexes for +/- 1.0 SD	Number of Schools	Percent of Schools
Excellent		111.04 or above	3	1
Good		104.74 to 111.03	16	5.4
Average		92.14 to 104.73	218	73.2
Below Average		85.84 to 92.13	53	17.8
At Risk		LT 85.84	8	2.7
Total*			298	100.1

* Totals may differ from 100% due to rounding.
SD=Standard Deviation

Results of Simulations Using Model G-6
Asymmetrical Growth Value Table Based on 1- to 5-Point Weights
ALL ELEMENTARY AND MIDDLE SCHOOLS

Mean of all schools = 94.29, Standard Deviation = 2.7895, n=908

G-6A: Criteria Based on +/- 0.5 SD				
Simulated Growth Rating		Range of Indexes for +/- 0.5 SD	Number of Schools	Percent of Schools
Excellent		97.08 or above	129	14.2
Good		95.69 to 97.07	153	16.9
Average		92.90 to 95.68	386	42.5
Below Average		91.50 to 92.89	106	11.7
At Risk		LT 91.50	134	14.8
Total*			908	100.1
G-6B: Criteria Based on +/- 0.75 SD				
Simulated Growth Rating		Range of Indexes for +/- 0.75 SD	Number of Schools	Percent of Schools
Excellent		98.48 or above	37	4.1
Good		96.39 to 98.47	168	18.5
Average		92.20 to 96.38	536	59
Below Average		90.11 to 92.19	97	10.7
At Risk		LT 90.11	70	7.7
Total*			908	100
G-6C: Criteria Based on +/- 1.0 SD				
Simulated Growth Rating		Range of Indexes for +/- 1.0 SD	Number of Schools	Percent of Schools
Excellent		99.87 or above	10	1.1
Good		97.08 to 99.86	119	13.1
Average		91.50 to 97.07	645	71
Below Average		88.71 to 91.49	103	11.3
At Risk		LT 88.71	31	3.4
Total*			908	99.9

* Totals may differ from 100% due to rounding.

SD=Standard Deviation

Results of Simulations Using Model G-6
Asymmetrical Growth Value Table Based on 1- to 5-Point Weights
ELEMENTARY SCHOOLS

Mean of all elementary schools = 94.82, Standard Deviation = 2.6954, n=298

G-6A: Criteria Based on +/- 0.5 SD				
Simulated Growth Rating	Growth	Range of Indexes for +/- 0.5 SD	Number of Schools	Percent of Schools
Excellent		97.08 or above	114	18.7
Good		95.69 to 97.07	119	19.5
Average		92.90 to 95.68	258	42.3
Below Average		91.50 to 92.89	55	9
At Risk		LT 91.50	64	10.5
Total*			610	100
G-6B: Criteria Based on +/- 0.75 SD				
Simulated Growth Rating	Growth	Range of Indexes for +/- 0.75 SD	Number of Schools	Percent of Schools
Excellent		98.48 or above	34	5.6
Good		96.39 to 98.47	145	23.8
Average		92.20 to 96.38	345	56.6
Below Average		90.11 to 92.19	51	8.4
At Risk		LT 90.11	35	5.7
Total*			610	100.1
G-6C: Criteria Based on +/- 1.0 SD				
Simulated Growth Rating	Growth	Range of Indexes for +/- 1.0 SD	Number of Schools	Percent of Schools
Excellent		99.87 or above	10	1.6
Good		97.08 to 99.86	104	17
Average		91.50 to 97.07	432	70.8
Below Average		88.71 to 91.49	49	8
At Risk		LT 88.71	15	2.5
Total*			610	99.9

* Totals may differ from 100% due to rounding.

SD=Standard Deviation

Results of Simulations Using Model G-6
Asymmetrical Growth Value Table Based on 1- to 5-Point Weights
MIDDLE SCHOOLS

Mean of all middle schools = 93.20, Standard Deviation = 2.6636, n=610

G-6A: Criteria Based on +/- 0.5 SD				
Simulated Growth Rating	Growth	Range of Indexes for +/- 0.5 SD	Number of Schools	Percent of Schools
Excellent		97.08 or above	15	5
Good		95.69 to 97.07	34	11.4
Average		92.90 to 95.68	128	43
Below Average		91.50 to 92.89	51	17.1
At Risk		LT 91.50	70	23.5
Total*			298	100
G-6B: Criteria Based on +/- 0.75 SD				
Simulated Growth Rating	Growth	Range of Indexes for +/- 0.75 SD	Number of Schools	Percent of Schools
Excellent		98.48 or above	3	1
Good		96.39 to 98.47	23	7.7
Average		92.20 to 96.38	191	64.1
Below Average		90.11 to 92.19	46	15.4
At Risk		LT 90.11	35	11.7
Total*			298	99.9
G-6C: Criteria Based on +/- 1.0 SD				
Simulated Growth Rating	Growth	Range of Indexes for +/- 1.0 SD	Number of Schools	Percent of Schools
Excellent		99.87 or above	0	0
Good		97.08 to 99.86	15	5
Average		91.50 to 97.07	213	71.5
Below Average		88.71 to 91.49	54	18.1
At Risk		LT 88.71	16	5.4
Total*			298	100

* Totals may differ from 100% due to rounding.

SD=Standard Deviation

Results of Simulations Using Model G-7
Asymmetrical Growth Value Table Based on 1- to 3-Point Weights
ALL ELEMENTARY AND MIDDLE SCHOOLS

Mean of all schools = 92.17, Standard Deviation = 3.4926, n=908

G-7A: Criteria Based on +/- 0.5 SD				
Simulated Growth Rating	Range of Indexes for +/- 0.5 SD	Number of Schools	Percent of Schools	
Excellent	95.66 or above	143	15.7	
Good	93.92 to 95.65	125	13.8	
Average	90.43 to 93.91	386	42.5	
Below Average	88.68 to 90.42	121	13.3	
At Risk	LT 88.68	133	14.6	
Total*		908	99.9	
G-7B: Criteria Based on +/- 0.75 SD				
Simulated Growth Rating	Range of Indexes for +/- 0.75 SD	Number of Schools	Percent of Schools	
Excellent	97.41 or above	44	4.8	
Good	94.79 to 97.40	164	18.1	
Average	89.55 to 94.78	526	57.9	
Below Average	86.93 to 89.54	110	12.1	
At Risk	LT 86.93	64	7	
Total*		908	99.9	
G-7C: Criteria Based on +/- 1.0 SD				
Simulated Growth Rating	Range of Indexes for +/- 1.0 SD	Number of Schools	Percent of Schools	
Excellent	99.16 or above	13	1.4	
Good	95.66 to 99.15	130	14.3	
Average	88.68 to 95.65	632	69.6	
Below Average	85.19 to 88.67	100	11	
At Risk	LT 85.19	33	3.6	
Total*		908	99.9	

* Totals may differ from 100% due to rounding.

SD=Standard Deviation

Results of Simulations Using Model G-7
Asymmetrical Growth Value Table Based on 1- to 3-Point Weights
ELEMENTARY SCHOOLS

Mean of all elementary schools = 92.55, Standard Deviation = 3.5473, n=610

G-7A: Criteria Based on +/- 0.5 SD				
Simulated Growth Rating	Growth	Range of Indexes for +/- 0.5 SD	Number of Schools	Percent of Schools
Excellent		95.66 or above	118	19.3
Good		93.92 to 95.65	95	15.6
Average		90.43 to 93.91	247	40.5
Below Average		88.68 to 90.42	74	12.1
At Risk		LT 88.68	76	12.5
Total*			610	100
G-7B: Criteria Based on +/- 0.75 SD				
Simulated Growth Rating	Growth	Range of Indexes for +/- 0.75 SD	Number of Schools	Percent of Schools
Excellent		97.41 or above	39	6.4
Good		94.79 to 97.40	127	20.8
Average		89.55 to 94.78	341	55.9
Below Average		86.93 to 89.54	62	10.2
At Risk		LT 86.93	41	6.7
Total*			610	100
G-7C: Criteria Based on +/- 1.0 SD				
Simulated Growth Rating	Growth	Range of Indexes for +/- 1.0 SD	Number of Schools	Percent of Schools
Excellent		99.16 or above	12	2
Good		95.66 to 99.15	106	17.4
Average		88.68 to 95.65	416	68.2
Below Average		85.19 to 88.67	56	9.2
At Risk		LT 85.19	20	3.3
Total*			610	100.1

* Totals may differ from 100% due to rounding.

SD=Standard Deviation

Results of Simulations Using Model G-7
Asymmetrical Growth Value Table Based on 1- to 3-Point Weights
MIDDLE SCHOOLS

Mean of all middle schools = 91.38, Standard Deviation = 3.2455, n=298

G-7A: Criteria Based on +/- 0.5 SD				
Simulated Growth Rating	Growth	Range of Indexes for +/- 0.5 SD	Number of Schools	Percent of Schools
Excellent		95.66 or above	25	8.4
Good		93.92 to 95.65	30	10.1
Average		90.43 to 93.91	139	46.6
Below Average		88.68 to 90.42	47	15.8
At Risk		LT 88.68	57	19.1
Total*			298	100
G-7B: Criteria Based on +/- 0.75 SD				
Simulated Growth Rating	Growth	Range of Indexes for +/- 0.75 SD	Number of Schools	Percent of Schools
Excellent		97.41 or above	5	1.7
Good		94.79 to 97.40	37	12.4
Average		89.55 to 94.78	185	62.1
Below Average		86.93 to 89.54	48	16.1
At Risk		LT 86.93	23	7.7
Total*			298	100
G-7C: Criteria Based on +/- 1.0 SD				
Simulated Growth Rating	Growth	Range of Indexes for +/- 1.0 SD	Number of Schools	Percent of Schools
Excellent		99.16 or above	1	0.3
Good		95.66 to 99.15	24	8.1
Average		88.68 to 95.65	216	72.5
Below Average		85.19 to 88.67	44	14.8
At Risk		LT 85.19	13	4.4
Total*			298	100.1

* Totals may differ from 100% due to rounding.

SD=Standard Deviation

2008 Absolute and Growth Ratings

**Table I-1 All Schools
2008 Absolute and Growth Ratings for All Elementary and Middle Schools
Whose Data Are Included in 2009 Simulations**

2008 Absolute Ratings	2008 Range of Indexes for Absolute Ratings	Number of Schools	Percent of Schools
Excellent	3.9 or above	36	4.0
Good	3.5 to 3.8	136	15.1
Average	3.1 to 3.4	308	34.1
Below Average	2.7 to 3.0	259	28.7
At Risk	LT 2.7	164	18.2
Total*		903	100.1
No Rating in 2008**		27	
2008 Growth Ratings	2008 Range of Indexes for Growth Ratings	Number of Schools	Percent of Schools
Excellent	0.4 or above	17	1.9
Good	0.3	89	10.1
Average	0.1 to 0.2	130	14.7
Below Average	0.0	314	35.6
At Risk	-0.1 or less	332	37.6
Total*		882	99.9
No Rating in 2008**		26	

* Percentages may not add to 100 due to rounding.

** Includes new schools in 2009 which did not receive 2008 rating.

Mean 2008 Absolute index for the 903 schools having 2008 data was 3.07, standard deviation=0.4585, minimum=1.22, maximum=4.75.

Mean 2008 Growth index for the 882 schools having 2008 data was -0.022, standard deviation=0.1207, minimum=-0.79, maximum=0.33.

**Table I-1 Elementary Schools
2008 Absolute and Growth Ratings for All Elementary Schools
Whose Data Are Included in 2009 Simulations**

2008 Absolute Ratings	2008 Range of Indexes for Absolute Ratings	Number of Schools	Percent of Schools
Excellent	3.9 or above	31	5.0
Good	3.5 to 3.8	111	18.0
Average	3.1 to 3.4	226	36.6
Below Average	2.7 to 3.0	173	28.0
At Risk	LT 2.7	77	12.5
Total*		618	100.1
No Rating in 2008**		13	
2008 Growth Ratings	2008 Range of Indexes for Growth Ratings	Number of Schools	Percent of Schools
Excellent	0.4 or above	17	2.8
Good	0.3	77	12.9
Average	0.1 to 0.2	98	16.4
Below Average	0.0	189	31.6
At Risk	-0.1 or less	217	36.3
Total*		598	100.0
No Rating in 2008**		12	

* Percentages may not add to 100 due to rounding.

** Includes new schools in 2009 which did not receive 2008 rating.

Mean 2008 Absolute index for the 618 elementary schools having 2008 data was 3.4, standard deviation=0.4328, minimum=1.30, maximum=4.74.

Mean 2008 Growth index for the 598 elementary schools having 2008 data was -0.016, standard deviation=0.1282, minimum=-0.79, maximum=0.32.

Table I-1 Middle Schools
2008 Absolute and Growth Ratings for All Middle Schools
Whose Data Are Included in 2009 Simulations

2008 Absolute Ratings	2008 Range of Indexes for Absolute Ratings	Number of Schools	Percent of Schools
Excellent	3.9 or above	5	1.8
Good	3.5 to 3.8	25	8.8
Average	3.1 to 3.4	82	28.8
Below Average	2.7 to 3.0	86	30.2
At Risk	LT 2.7	87	30.5
Total*		285	100.1
No Rating in 2008**		14	
2008 Growth Ratings	2008 Range of Indexes for Growth Ratings	Number of Schools	Percent of Schools
Excellent	0.4 or above	0	0.0
Good	0.3	12	4.2
Average	0.1 to 0.2	32	11.3
Below Average	0.0	125	44.0
At Risk	-0.1 or less	115	40.5
Total*		284	100.0
No Rating in 2008**		14	

* Percentages may not add to 100 due to rounding.

** Includes new schools in 2009 which did not receive 2008 rating.

Mean 2008 Absolute index for the 285 middle schools having 2008 data was 2.90, standard deviation=0.4719, minimum=1.22, maximum=4.75.

Mean 2008 Growth index for the 284 schools having 2008 data was -0.034, standard deviation=0.1024, minimum=-0.75, maximum=0.33.